



Ingredients of a Fire

Investigation

A. Observe the burning candle.

1. What is the source of fuel? _____

2. What is the source of heat? _____

3. What is the source of oxygen? _____

4. What is the evidence of oxidation? _____

5. What color represents the hottest area of the flame? _____

6. What happened when you eliminated one of the three ingredients of fire?

Why? _____

7. Explain the chemical reaction that took place: _____

B. Why are fires more likely to burn during hot weather than during cool weather?

C. Why would plants with smaller leaf surfaces burn faster than those with larger leaf surfaces? _____

D. In the Santa Monica Mountains, why would the dry, woody shrubs that have built up over the years, cause a fire to burn hotter, than in areas that burned recently? _____
